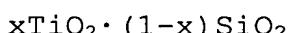


What is claimed is :

1. A method for producing propylene oxide, characterized in
that peroxide is reacted with propylene in the presence of a
titanosilicate catalyst which has an X-ray diffraction pattern
5 indicated below and is represented by the formula.



wherein x denotes a numerical value of 0.0001 to 0.1.

X-ray diffraction patterns

(interplanar spacing of lattice d/Å)

10 13.2±0.6

12.3±0.3

11.0±0.3

9.0±0.3

6.8±0.3

15 3.9±0.2

3.5±0.1

3.4±0.1

2. A method for producing according to Claim 1, wherein the
titanosilicate is a Ti-MWW precursor.

20 3. A method for producing according to Claim 1, wherein the
titanosilicate is titanosilicate synthesized by a hydrothermal
synthesis method.

4. A method for producing according to Claim 1, wherein the
peroxide is hydrogen peroxide.

25 5. A method for producing propylene oxide according to Claim
4, wherein alcohol is used as a solvent.

6. A method for producing propylene oxide according to Claim
5, wherein tert-butanol is used as a solvent.